24	Providing and fixing in position fully glazed Honne wood window shutters for doors, styles and rails of 35mm, thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour,HOM of machineries completed as per specification (excluding cost of fixtures) Page No.50, Item No. 9.69)								
	Window shutter	2	2	0.45	1.10	1.98			
	Ventilator	1	2	0.25	0.25	0.13			
						2.11			
	For three Houses	3		2.11		6.32	2226.00	Sqm	14058.00
	Basic Rate	2100.00							
	Area Weightage @ 6%	126.00							
	Total	**2226.00**							
25	Providing and fixing M S bars to windows and ventilators including cutting making holes in frame work with two coats of approved paint (Page No. 233, Item No. 37.19								
	Window	20	1.00			20.00			
	Ventlator	4	0.60			2.40			
						22.40			
	Consider 0.90kg per meter					20.16			
	For three Houses	3		20.16		60.48	37.10	Kg	2244.00
	Basic Rate	35.00							
	Area Weightage @ 6%	2.10							
	Total	**37.10**							
26	Applying priming coat over new wood surface and/ or wood based surface after preparing the surface after throughly cleaning oil, grease, dirt and foreign matter, sand papering and knotting liquid wood filler, for varnish including cost of materials, labour, complete as per specificatios (Page No. 103, Item No. 15.59)								
	Door	1	0.90	2.10		1.89			
	Window	2	1.00	1.20		2.40			
	Ventilator	1	0.60	0.60		0.36			
						4.65			
		4.65	x	2.25		10.46			
	For three Houses	3		10.46		31.39	26.61	Sqm	836.00
	Basic Rate	25.10							
	Area Weightage @ 6%	1.51							
	Total	**26.61**							
27	Providing and applying **enamel metal paint** two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labhour, complete as per specifications.(P.No.105,I.No.15.74								
						31.39			
	qty vide Item No.26				**Total**	**31.39**	**72.50**	**Sqm**	**2276.00**
	Basic Rate	68.40							
	Area Weightage @ 6%	4.10							
	Total	**72.50**							

28	Providing and fixing of factory made 30mm **P.V.C rigid foam(FOREX) PANEL DOORS** Rajashree made from MS tube of 19 guage, size of 19mmx19mm and covered with heat moulded PVC C Channel of 5mm thick and width of 50mm to form styles and rails. The inner panel should be inserted in between the frame with 5mm thick PVC rigid foam sheet, welded/sealed to the styles and rails along with 5mm PVC, beeding on all and either sides. The vetical tubes may be filled with suitable wood material to forther enhance the screw holding capacity.(P.No.53,I.No.9.91)								
	Door	1	0.75	2.1		1.58			
	For three Houses	**3**		**1.58**		**4.73**	**2014.00**	**Sqm**	**9517.00**
	Basic Rate	1900.00							
	Area Weightage @ 6%	114.00							
	Total	**2014.00**							
29	Providing lime concrete terracing on roofing for weather proof course, average thickness 100mm , liad to slope with 25mm nominal size brick jelly and 50% lime surkhi mortar 1:2 (One lime putty two surkhi) rammed and finished with gur and Belgiri treatment rounding off junctions with parapets including cost of materials, labour complete as per specifications (Page 57, Item No. 10.1)								
	Terrace	**1**	3.60	5.00		**18.00**			
	For three Houses	**3**	-	**18.00**		**54.00**	**280.90**	**Sqm**	**15169.00**
	Basic Rate	265.00	-						
	Area Weightage @ 6%	15.90							
	Total	**280.90**							
	Electrical,water supply and Sanitary items								
30	Providing and fixing white vitreous china clay, water closet Orissa pattern of size 580x440mm with intergral type footrests, 100mm S or P trap, (approved make) cuttings and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. (Page No.67, item No. 12.4)								
		1.00				**1.00**			
	For three Houses	**3**		**1.00**		**3.00**	**1561.38**	**No**	**4685.00**
	Basic Rate	1473.00							
	Area Weightage @ 6%	88.38							
	Total	**1561.38**							

31	Constructing brick masonry inspections chamber 450X450mm and 450mm depth (clear inside dimension) for single pipe line, using table moulded non-modular bricks of class disignations 50 in Cement mortar 1:5, C.I. cover with frame (light duty) 450x300mm internal dimensions, total weight of cover with frame to be not less than 38kg (weight of cover 23kg and weight of frame 15kg) R.C.C top slab with cement concrete 1:2:4 mix 20mm and downsize granite metal, foundation concrete 1:5:10 with 40mm and down size granite metal inside plastering 12mm thick with cement mortar 1:3, finish smooth with a floating coat of cement on walls and bed concrete complete as per standard design including cost of materials labour charges curing complete as per specifications (Page NO. 64, Item No. 11.50.2)								
		1.00				**1.00**			
	For three Houses	**3**		**1.00**		**3.00**	**3701.52**	**Nos**	**11105.00**
	Basic Rate	3492.00							
	Area Weightage @ 6%	209.52							
	Total	**3701.52**							
32	Providing and fixing to wall, ceilig and floor galvanised/ mild steel tube 20mm dia nominal bore excluding cost of fittings(medium grade weight 1.65 kg/Mtr) B class including cost of all materials, labour charges, HOM of equiptments and testing complete as per specificatins (Page No. 79, Item No. 13.2)								
		1.00	13.00			**13.00**			
						13.00			
	For three Houses	**3**		**13.00**		**39.00**	**163.24**	**Rmt**	**6367.00**
	Basic Rate	154.00							
	Area Weightage @ 6%	9.24							
	Total	**163.24**							
33	Providing and fixing in position brass stop cock of approved quality15mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications (Page no. 80 Item No. 13.26)								
		1.00	2.00			**2.00**			
	For three Houses	**3**		**2.00**		**6.00**	**135.68**	**Each**	**815.00**
	Basic Rate	128.00							
	Area Weightage @ 6%	7.68							
	Total	**135.68**							
34	Providing and fixing on wall surface 4.0kg /Sq.cm H.D.P.E. rain down water pipes 110mm outer dia approved make and brand with necessary specials like shoes, bends and offsets fixed with iron clamps, wall plugs screws, including cost of materials, labour, complete as per specifications (Page No. 42, item No. 8.19)								
	For Sanitary line	**1.00**	5.00			**5.00**			
	For three Houses	**3**		**5.00**		**15.00**	**448.38**	**Rmt**	**6726.00**
	Basic Rate	423.00							
	Area Weightage @ 6%	25.38							
	Total	**448.38**							

35	Supplying heavy gauge PVC conduit pipe .....dia confirming to IS 2509 with suitable size bends, junction boxes, adhesive paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall stone structure or rawl plugs in case of brick walls and cement plastering damaged portion using heavy gauge saddles at an interval of 700mm using WF screws.(P-2, I-1)								
	a) 19/20mm dia 2mm thick					10	37.00	Per Mtr	**370.00**
	b) 25mm dia 2mm thick					10	45.00	Per Mtr	**450.00**
	c) 32mm dia 2.5mm thick					10	62.00	Per Mtr	**620.00**
36	Groove cutting in the wall supplying ....dia 2mm/2.5mm thick heavy gauge PVC Conduit Pipe with bends, metal junction boxes adhesive paste etc., and bracing U or J hooks and cement plastering up to the surface of the brick level and run with 18 SWG GI fish wire run through out the conduit wherever necessary.(P-2, I-3)								
	a) 19/20mm dia 2mm thick					10	43.00	Per Mtr	**430.00**
	b) 25mm dia 2mm thick					10	53.00	Per Mtr	**530.00**
	c) 32mm dia 2.5mm thick					10	68.00	Per Mtr	**680.00**
37	Supplying and fixing PVC/metal conduit accessories.(P-3, I-5)								
	Special type junction box								
	a) 19/20mm junction box					12	18.00	Each	**216.00**
	b) 25mm junction box					12	21.00		**252.00**
38	Supplying and flush mounting teak wooden box without front plank made of not less than 12mm thick wood, after due groove cutting, necessary masonry patch work complete. (P-3, I-6)								
	b)12"x9"x3"					6	80.00	Each	**480.00**
	c)10"x7"x3"					6	68.00	Each	**408.00**
	d)8"x6"x3"					6	52.00	Each	**312.00**
39	Supplying and wiring adopting loop system in existing PVC Conduit /casing capping using **copper** PVC insulated multi strand 2x1.5Sqmm copper wire with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet/ gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet. (P-3, I-8)								
	a) Short point up to 3Mtr from tapping point to out let via switch					6	175.00	Each	**1050.00**
	b) Medium point above 3Mtr up to 6Mtr from tapping point to out let via switch					6	260.00	Each	**1560.00**
	c) Long point above 6Mtr up to 10Mtr from tapping point to out let via switch					6	368.00	Each	**2208.00**

40	Supplying 6A flush/projected type socket and a 6 amps flush/projected type SP switch either surface/flush mounting in a existing gang box or in a 4mm thick plastic sheet and fixing over a flush mounted wooden box and wiring using necessary capacity wires as required.(P-6, I-12)								
	b) 6Amps 3/5 Way					6	91.00	Each	**546.00**
41	Supply and fixing of bakelite D.P/Socket/ switch with/without neon indicator over existing wood board or flush mounting in plastic plates/nitches.(P-6, I-14)								
	a) 32Amps Flush/project type DP switch					6	145.00	Each	**870.00**
	c) 16Amps Flush type Universals socket					3	85.00	Each	
42	Wiring for lighting/power circuit using one of PVC insulated 1100v grade, multistrand **Copper** conductor single core cable in open or concealed system of wiring .(P-9, I-20)							–	
	b) 1.5 sqmm					150	15.00	Per Mtr.	**2250.00**
	c) 2.5 sqmm					150	25.00	Per Mtr.	**3750.00**
	d) 4 sqmm					150	32.00	Per Mtr.	**4800.00**
43	Supplying 4mm thick plastic sheet with necessary nitches for fixing switches regulators etc., and fixing on existing wooden or metal box using N.F. screws. (P-10, I-22)					500	0.22	Sq.Cm	**110.00**
44	Extra for supplying 4mm thick white plastic plate and covering for junction boxes or size .....mm conduit using necessary machine screws.(P-11, I-26)								
	a) 80mm					9	7.25	No	**66.00**
	b)110mm					9	8.75	No	**79.00**
45	Supplying and fixing PBBC bakelite straight or slant batten holder and wiring, within 60w/230 Volts lamps (P-13, I-2)					18	60.00	Each	**1080.00**
46	Supplying and fixing one of 230 volts Ding dong bell and a flush type bell push with gang box fixed on necessary wooden or rawl plugs using NF screws.(P-13, I-4)					3	140.00	Each	**420.00**
47	Supplying and fixing cast Alluminium round or oblong type bulk head fitting with GI wire guard, glass cover with 15Watts 230V CFL lamp as required. (P-13, I-6)					3	1098.00	Each	3294.00
48	Supply box type fluorescent tube light fitting of 4'- 36/40 watts fluorescent tube fitting, made out of M.S sheet and stove enameled with low loss open construction copper wound ferromagnetic ballast, starter, locking type brass contact holders mounted on double fold type sheet base fully wired for use on 230 Volts A C Supply including fluorescent tube.(P-16, I-3)								
	I) 1x4'-36/40Watts					3	675.00	Each	**2025.00**
49	Supplying capacitor type ceiling fan complete with down rod blades, shackle, canopies etc., for operation on 230 volts, and 50 cycles. Single phase AC supply conforming to ISS-374-1979 and with double ball bearing system and as per technical data approved. (P-23, I-23)								
	I) 48" Sweep (1200mm)					3	1800.00	Each	**5400.00**

50	Fixing all types and all capacities fluorescent/false ceiling/spot light/CFL fittings indoor on the wall / ceiling/ rafters / girders using 23/0.0076" twin twisted PVC insulated wires, required nos of round blocks and clamps (if required) (P-29, I-7)								
	a) On wall/ceiling/Rafter/Girders					12	105.00	Each	**1260.00**
51	Fixing a ceiling/Wall mounting fan of all capacities and all types to the existing S hook with fan regulator to the existing board together with supplying and fixing a 5 ampers ceiling rose, necessary length of 23 / 0.0076 inch PVC insulated twin twisted copper wire and wiring completely. (P-28, I-8)					3	105.00	Each	**315.00**
52	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers etc., complete.(P-32, I-3)								
	e) 200Amps					3	865.00	Each	**2595.00**
53	Supplying, fixing and wiring 3 phase, Digital Ammeter /Voltmeter. (P-39, I-23)					3	1440.00	Each	**4320.00**
54	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipments on the meter board using 40mm dia 2.90 thick GI pipe 2.5 Mtr long buried in a pit ... The pit should be filled with equal proportion of salt and charcoal 150mm around the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc, the pipe shall have 16 through holes of 122 mm dia.(P-68, I-1)					3	1950.00	No	**5850.00**
55	Supplying of LT UG cable having alluminium conductor PVC insulated, sheathed, galvanized, steel wire/steel tap armored cable with PVC outer sheathing 1.1 KV class (P-68,4)								
	f) 3.5 core 35 sqmm					30	250.00	M	**7500.00**
56	Labour charges for laying of 1.1 KV class UG cable when supplied agency in existing trench GI pipe / stoneware pipe / on wall / on pole as required.(P-69,I 5)								
	b) 25 sqmm to 75 sqmm					3	11.00	"	**33.00**
57	Digging of trench of 0.6m deep x 0.50 Mtr wide refilling the trench to the required ground level and consolidating etc., complete.(As per Civil SR KSRB I-2, P-7) (P-70, I-6)								
	b) In soil (hard)					3	50.00	"	**150.00**
	e) Asphalt cutting					3	80.00	"	**240.00**
58	Supplying and fixing of class A (medium duty) GI pipe of wall thick ness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class.(P-69, I-9)								
	b) 50mm					10	260.00	"	**2600.00**
59	Supplying and fixing L.T. cast Iron pot heads suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc. (P-70, I-10)								

	d) 35Sqmm					3	313.00	Each	**939.00**
60	Miscellaneous and unforeseen charges etc.L.S								**891.00**
							TOTAL AMOUNT		**900000.00**

Executive Engineer,
Hebbal Division,
Bruhat Bangalore Mahanagara Palike

Certificate:

1. The work spot has been inspected and found to be necessary
2. The work spot comes under BMP Limits
3. The provisions made in the estimate are necessary and minimum
4. The estimate is based on CSR of 2010-11

Assistant Engineer
Ward No. 18

Assistant Executive Engineer
Hebbal Sub division
B B M P

Executive Engineer
Hebbal Sub division
B B M P

ADMINISTRATIVELY SANCTIONED FOR
Rs. ... Nine lakhs only
Under Addl 22.75% Grants 10-11
P1878
Registered as EE(H) vide No. 265
Subject to Conditions in Enclosed
Memo No AS/398/11-12 Dt. 17-06-2011

JE / AE

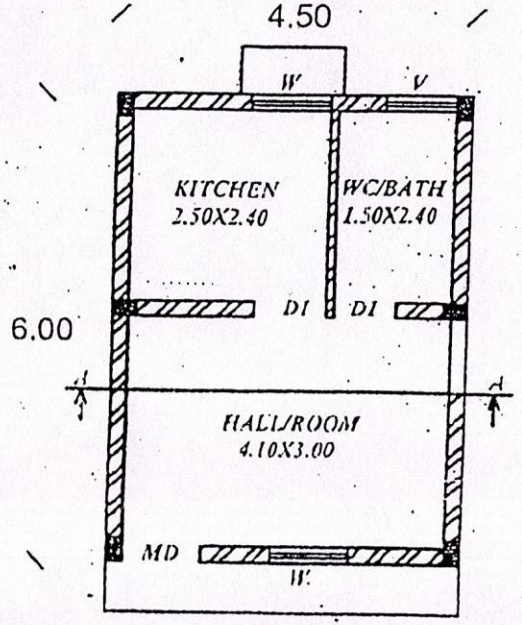
Exe. Engineer (H)

TECHNICALLY SANCTIONED FOR
Rs. Nine lakhs only
Addl 22.75% Grants 10-11
Under P1878
Registered as EE(H)vide No 265
Subject to conditions in enclosed memo
No TS/265/11-12 Dt: 18-06-2011

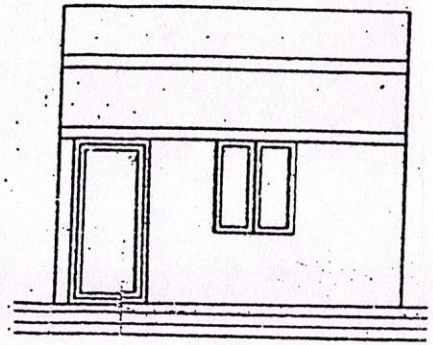
JE/AE

EE(H.)

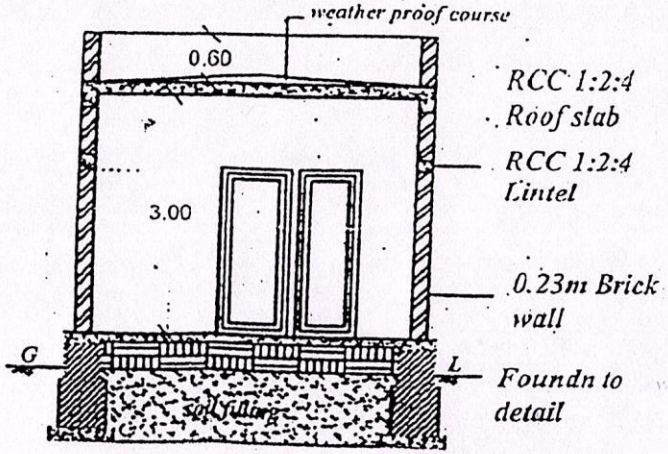
CONSTRUCTION OF INDIVIDUAL HOUSES FOR SC/ST AT WARD NO. 18



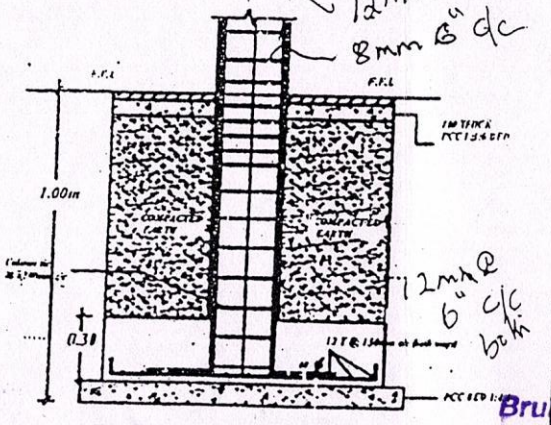
PLAN



ELEVATION



SECTION A-A



COLUMN FOOTING DETAILS

SCHEDULE OF OPENING

DOOR MD 1.00MX2.10M
D1 0.90MX2.10M
VENTILATOR
V 0.90MX0.60M

AREA STATEMENT = 27.00SQM(290Sft)

ALL DIMENSION IN METERS
SCALE 1:100

ASSISTANT ENGINEER
WARD NO.

ASSISTANTEXECUTIVE ENGINEER

EXECUTIVE ENGINEER

Executive Engineer,
Hebbal Division,
Bruhat Bangalore Mahanagara Palike